INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU03/00813

Int. Cl. ? F03B 13/18 According to International Patent Classification (IFC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) REFER ELECTRONIC DATABASE CONSULTED BELOW Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI - F03B 13/12, 13/14, 13/16, 13/18 and keyword pump C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X Whole document WO 99/66198 A1 (FELDMAN et al) 23 December 1995 Whole document WO 99/66198 A1 (FELDMAN et al) 23 December 1999 Whole document of Fig 6 X Us 4203294 A (BUDAL et al) 20 May 1980 Embodiment of Fig 6 X Further documents are listed in the continuation of Box C See patent family annex *Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance; evaluation of the membor of the relevance and the international filing date or priority date which is not considered to be of particular relevance; the claimed invention cannot be considered movel or cannot be considered to involve an inventive step when the document is taken alone of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone of particular relevance; the claimed invention cannot be considered to onvolve an inventive step when the document is taken alone of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone of particular relevance; the claimed invention cann	A.	CLASSIFICATION OF SUBJECT MATTER							
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Minimum documentation searched (classification system followed by classification symbols) REFER ELECTRONIC DATABASE CONSULTED BELOW Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI - F03B 13/12, 13/14, 13/16, 13/18 and keyword pump C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 5473892 A (MARGITTAI) 12 December 1995 Whole document WO 99/66198 A1 (FELDMAN et al) 23 December 1999 Whole document US 4203294 A (BUDAL et al) 20 May 1980 Embodiment of Fig 6 I,17,33-34 X Further documents are listed in the continuation of Box C See patent family annex **Cocument defining the general state of the art which is not considered to be of particular velvance. "E" carrier application or patent but published on or after the international fling date which is role to testablish the publication date of another citation or other special reason (as specified) "C" document which may throw doubts on priority claim(s) or which is ricited to establish the publication date of another citation or other special reason (as specified) "C" document which may throw doubts on priority claim(s) or which is ricited to establish the publication date of another citation or other special reason (as specified) "C" document which may throw doubts on priority claim(s) or which is ricited to establish the publication date of another citation or other special reason (as specified) "C" document referring to an oral disclosure, use, exhibition or other massing of the international fling date or priority date and not in conflict with the application but cited to understand the principle of the oral published after the international to considered to involve an inventive step when the document is taken alone or more other	According to International Patent Classification (IPC) or to both national classification and IPC								
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI - F03B 13/12, 13/14, 13/16, 13/18 and keyword pump C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X Whole document WO 99/66198 A1 (FELDMAN et al) 23 December 1995 Whole document WO 99/66198 A1 (FELDMAN et al) 23 December 1999 Whole document WS 4203294 A (BUDAL et al) 20 May 1980 Embodiment of Fig 6 X Further documents are listed in the continuation of Box C Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other such exhibition or other means "La document which may throw doubts on priority claim(s) or which is cited to establish the publication or the reason (as specified) "C" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other such exhibition or other means "E carlier application or patent but published on or after the international filing date to priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered to involve an inventive step when the document is taken alone document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is understand the principle or the considered to involve an inventive step when the document is such combined with one or more other such documents, such combination being obvious to a person skilled in the art document in the principle of the actual completion of the international search report "									
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X Whole document 1-6,12-15,17-18,27-28,32-34 X Whole document 1-6,12-15,17-18,27-28,32-34 X Whole document 1-6,12-15,17-18,27-28,32-34 X US 4203294 A (BUDAL et al) 20 May 1980 1,17,33-34 X Embodiment of Fig 6 1,17,33-34 X Embodiment of Fig 6 1,17,33-34 X Further documents are listed in the continuation of Box C See patent family annex ** Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date earlier application or patent but published on or after the international filing date explication or other special reason (as specified) **T'	Category*	Citation of document, with indication, where app	propriate, of the relevant passages						
WO 99/66198 A1 (FELDMAN et al) 23 December 1999 Whole document US 4203294 A (BUDAL et al) 20 May 1980 Embodiment of Fig 6 Further documents are listed in the continuation of Box C See patent family annex Further documents are listed in the continuation of Box C See patent family annex "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone is taken alone is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of the actual completion of the international filing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pc(@jpaustralia.gov.au PS Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered to involve an inventive step when the document is taken alone is taken alone is taken alone in the principle or the principle or theory underlying the invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of the actual completion of the international search report 1 SEP 2003 Pame and mailing address of the ISA/AU Authorized officer R. SUBBARAYAN		· · · · · · · · · · · · · · · · · · ·	nber 1995	1 < 10 15 17					
WO 99/66198 A1 (FELDMAN et al) 23 December 1999 X Whole document US 4203294 A (BUDAL et al) 20 May 1980 Embodiment of Fig 6 X Further documents are listed in the continuation of Box C Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date on or after the international filing date on or after the internation of the international filing date on or after the internation of the international filing date on or after the internation of the international filing date on the considered to involve an inventive step when the document is combined with noe or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family "A" document published after the international cannot be considered to involve an inventive step when the document is combined with noe or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of the actual completion of the international search 22 August 2003 Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA Email address: pet@ipaustralia.gov.au Based of the actual completion of the international filing date or priority date claimed oncument is taken alone Considered novel or cannot be considered to involve an inventive step when the document is combined with noe or more other such documents, such combination being obvious to a person skilled in the art document is taken alone Considered novel or cannot be consi	Х	Whole document							
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PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au R. SUBBARAYAN	Name and mail	ing address of the ISA/AU	Authorized officer						
E-mail address: pct@ipaustralia.gov.au R. SUBBARA YAN	PO BOY 200 WODEN ACT 2606 AUSTRALIA								
	E-mail address	; pct@ipaustralia.gov.au	R. SUBBARAYAN Telephone No : (02) 6283 2377						

INTERNATIONAL SEARCH REPORT

International application No. PCT/AU03/00813

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
х	GB 2007314 A (THE BRITISH PETROLEUM COMPANY LTD) 16 May 1979 Whole document	1-11,17- 21,23,30,32- 34				
х	GB 2267128 A (SOUTHCOMBE) 24 November 1993 Whole document	1,17,19- 21,30,33-34				
A	US 5329497 A (PREVISIC et al) 12 July 1994					
A	FR 2522073 A (SCHLACHET) 26 August 1983					
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/00813

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

	t Document Cited in Search Report			Pate	nt Family Member		
US	5473892	AU	77282/94	US	5349819	wo	9508060
wo	9966198	ĀŪ	42869/99	BR	9911855	CA	2335024
		EP	1108140	NZ	508804	US	6457307
US	4203294	AU	34319/78	DE	2812618	FR	2384961
		GB	1587344	JP	54000132	NO	771013
GB	2007314	AU	38145/78	CA	1102213	DE	2843023
		FR	2406092	JP	54062436	NO	782823
GB	2267128	NONE					
US	5329497	AU	48628/93	CA	2106503	EP	594537
		JP	6213134	NO	933694	NZ	248771
		ZA	9307182				
FR	2522073	NONE					
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